



German Democratic Republic

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PROCESS FOR THE CONTINUOUS PRODUCTION OF POLYETHER ALCOHOLS

Abstract

The invention relates to a process for continuously producing polyether alcohols that can be used for the production of polyurethanes, surface-active substances, various additives and hardener components for polyester and polyepoxide resins.

According to the invention, a living prepolymer consisting of an oxirane compound capable of undergoing polymerization, a polymerization catalyst from the group of double metal cyanides and an initiator containing hydroxyl groups is made to react with one or more oxirane compounds in one or more steps at a temperature of 20 to 140 °C in a continuously operating reactor. Preferably, this is done in a coiled reactor having several feed inlets and which at the beginning of the coil is provided with a metering device and at the end of the coil with throttling device. The oxirane compound is preferably introduced countercurrent to the flow direction of the living polymer at a reactor pressure that does not exceed 0.5 MPa. The invention can find application particularly in the chemical industry.

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